

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



549819



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085458 A2

- (51) International Patent Classification⁷: C07J (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: PCT/US2004/008629
- (22) International Filing Date: 22 March 2004 (22.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/456,716 21 March 2003 (21.03.2003) US
- (71) Applicant (*for all designated States except US*): PHARMACIA CORPORATION [US/US]; Global Patent Department, 700 Chesterfield Parkway West, Chesterfield, Missouri 63017-1732 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): FRANCZYK,
• Thaddeus, S. II. [US/US]; Pfizer Global Research and Development, Chemical R & D, 7000 Portage Road, Mailstop 0200-091-201, Portage, Michigan 49001 (US).
• WAGNER, Grace, M. [US/US]; 219 Papin Avenue, Webster Groves, MO 63119 (US).
- (74) Agents: ROEDEL, John, K., Jr. et al.; Senniger, Powers, Leavitt & Roedel, #1 Metropolitan Square, 16th Floor, St. Louis, Missouri 63102 (US).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/085458 A2

(54) Title: STEROID SPIROLACTONIZATION

(57) Abstract: A steroid comprising a 17-spirolactone or corresponding open lactone structure is obtained by carbonylation of a 17-alkenyl or 17-alkynyl substrate. A 17-alkenyl intermediate may be prepared by semi-hydrogenation of a 17-alkynyl group. Multiple reaction schemes are disclosed for preparation of a 3-keto-9,11-epoxy-17-spirolactone steroid such as eprenone. Novel intermediates are also disclosed, as well as steps for forming such novel intermediates, or converting them to further intermediates or products, by semi-hydrogenation, carbonylation, 6,7-dehydrogenation, furylation or other transformations or combinations thereof.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085458 A3

(51) International Patent Classification⁷: C07J 1/00, 21/00

(74) Agents: ROEDEL, John, K., Jr. et al.; Senniger, Powers, Leavitt & Roedel, #1 Metropolitan Square, 16th Floor, St. Louis, Missouri 63102 (US).

(21) International Application Number:

PCT/US2004/008629

(22) International Filing Date: 22 March 2004 (22.03.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/456,716 21 March 2003 (21.03.2003) US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
16 March 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: STEROID SPIROLACTONIZATION

(57) Abstract: A steroid comprising a 17-spirolactone or corresponding open lactone structure is obtained by carbonylation of a 17-alkenyl or 17-alkynyl substrate. A 17-alkenyl intermediate may be prepared by semi-hydrogenation of a 17-alkynyl group. Multiple reaction schemes are disclosed for preparation of a 3-keto-9,11-epoxy-17-spirolactone steroid such as eplerenone. Novel intermediates are also disclosed, as well as steps for forming such novel intermediates, or converting them to further intermediates or products, by semi-hydrogenation, carbonylation, 6,7-dehydrogenation, furylation or other transformations or combinations thereof.

WO 2004/085458 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08629

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07J 1/00, 21/00
 US CL : 540/41; 552/633, 637

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 540/41; 552/633, 637

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

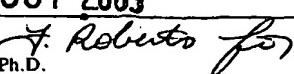
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
REGISTRY, CAPLUS, CASREACT, USPATFULL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WUTS et al., A Novel Synthesis of Spironolactone. An Application of the Hydroformylation Reaction. J. Org. Chem., 13 October 1989, Vol. 54, No. 21, pages 5180-5182, see the entire article, especially page 5181, Scheme 1a.	1-7
X	FUKUTA et al., Synthesis of 3-silyl-2(5H)-furanone by rhodium-catalyzed cyclocarbonylation. Tetrahedron Letters, 12 February 2001, Vol. 42, No. 7, pages 1301-1304, see the entire article, especially page 1304, Scheme 6.	1-7
Y	US 5,276,023 A (MOGUILAEWSKY et al.) 04 January 1994 (04.01.1994), see col. 10, lines 5-12.	6
Y	US 5,236,913 A (BERGINK) 17 August 1993 (17.08.1993), see col. 2, lines 45-49.	6

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 04 October 2005 (04.10.2005)	Date of mailing of the international search report 28 OCT 2005
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer  Barbara P. Badio, Ph.D. Telephone No. 571-272-1600

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08629

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7

Remark on Protest The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/08629

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claim(s) 1-7, drawn to a process for preparing a 17-spirolactone steroid compound.

Group II, claim(s) 8 and 9, drawn to steroid derivatives substituted in the 17-position by a 17-alkenyl and/or alkynyl group and a 17-oxy group.

Group III, claim(s) 10 and 11, drawn to a process for preparing a steroid derivative substituted in the 17-position by a 17-alkenyl and/or alkynyl group and a 17-oxy group.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The compounds encompassed by Groups I-III contain a steroid ring system which does not define a contribution over the prior art. The substituents and definitions of variables vary extensively and, when taken as a whole result in vastly different compounds. Accordingly, unity of invention is considered to be lacking and restriction of the invention in accordance with the rules of unity of invention is considered to be proper.

PATENT COOPERATION TREATY

30

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year)
27 September 2005 (27.09.2005)

From the INTERNATIONAL BUREAU

To:

ROEDEL, John, K., Jr.
Senniger, Powers, Leavitt & Roedel
#1 Metropolitan Square, 16th Floor
St. Louis, Missouri 63102
United States of America

Applicant's or agent's file reference PHA4152.1	IMPORTANT NOTIFICATION
International application No. PCT/US2004/008629	International filing date (day/month/year) 22 March 2004 (22.03.2004)

1. The following indications appeared on record concerning: <input type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative				
Name and Address 	State of Nationality		State of Residence	
	Telephone No.			
	Facsimile No.			
	Teleprinter No.			

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input type="checkbox"/> the person <input type="checkbox"/> the name <input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence				
Name and Address HAIFENG, Wu 3681 Fawn Cove #3 Portage, MI 49024 United States of America	State of Nationality		State of Residence	
	CN		US	
	Telephone No.			
	Facsimile No.			
TEAM 14				
Teleprinter No.				

3. Further observations, if necessary: The person identified in Box 2 has been added to the record as applicant for the United States of America only and inventor for all designated States.				
--	--	--	--	--

4. A copy of this notification has been sent to: <input checked="" type="checkbox"/> the receiving Office <input type="checkbox"/> the designated Offices concerned <input checked="" type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the elected Offices concerned <input checked="" type="checkbox"/> the International Preliminary Examining Authority <input type="checkbox"/> other: _____				
--	--	--	--	--

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.70.80	Authorized officer S. Diot Telephone No. (41-22) 338 9608
--	---

PATENT COOPERATION TREATY

30

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year) 27 September 2005 (27.09.2005)	
Applicant's or agent's file reference PHA4152.1	
International application No. PCT/US2004/008629	International filing date (day/month/year) 22 March 2004 (22.03.2004)

From the INTERNATIONAL BUREAU

To:

ROEDEL, John, K., Jr.
 Senniger, Powers, Leavitt & Roedel
 #1 Metropolitan Square, 16th Floor
 St. Louis, Missouri 63102
 United States of America

1. The following indications appeared on record concerning: <input type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative				
Name and Address EPO-DG 1 12. 10. 2005 TEAM 14		State of Nationality US	State of Residence US	
		Telephone No.		
		Facsimile No.		
		Teleprinter No.		
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input type="checkbox"/> the person <input type="checkbox"/> the name <input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence				
Name and Address HAVENS, Jeffrey, L. 22570 6th Avenue Mattawan, MI 49071 United States of America		State of Nationality US	State of Residence US	
		Telephone No.		
		Facsimile No.		
		Teleprinter No.		
3. Further observations, if necessary: The person identified in Box 2 has been added to the record as applicant for the United States of America only and inventor for all designated States.				
4. A copy of this notification has been sent to: <input checked="" type="checkbox"/> the receiving Office <input type="checkbox"/> the designated Offices concerned <input checked="" type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the elected Offices concerned <input checked="" type="checkbox"/> the International Preliminary Examining Authority <input type="checkbox"/> other: _____				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.70.80		Authorized officer S. Diot Telephone No. (41-22) 338 9608		

PATENT COOPERATION TREATY

30

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

		From the INTERNATIONAL BUREAU													
PCT		To:													
		ROEDEL, John, K., Jr. Senniger, Powers, Leavitt & Roedel #1 Metropolitan Square, 16th Floor St. Louis, Missouri 63102 United States of America													
Date of mailing (day/month/year) 27 September 2005 (27.09.2005)															
Applicant's or agent's file reference PHA4152.1		IMPORTANT NOTIFICATION													
International application No. PCT/US2004/008629		International filing date (day/month/year) 22 March 2004 (22.03.2004)													
<p>1. The following indications appeared on record concerning:</p> <p><input type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Name and Address</td> <td style="width: 25%;">State of Nationality</td> <td style="width: 25%;">State of Residence</td> </tr> <tr> <td></td> <td></td> <td>Telephone No.</td> </tr> <tr> <td></td> <td></td> <td>Facsimile No.</td> </tr> <tr> <td></td> <td></td> <td>Teleprinter No.</td> </tr> </table>				Name and Address	State of Nationality	State of Residence			Telephone No.			Facsimile No.			Teleprinter No.
Name and Address	State of Nationality	State of Residence													
		Telephone No.													
		Facsimile No.													
		Teleprinter No.													
<p>2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:</p> <p><input type="checkbox"/> the person <input type="checkbox"/> the name <input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Name and Address PADILLA, Amphlett, Greg 10137 South Westnedge Portage, MI 49002 United States of America</td> <td style="width: 25%;">State of Nationality US</td> <td style="width: 25%;">State of Residence US</td> </tr> <tr> <td></td> <td></td> <td>Telephone No.</td> </tr> <tr> <td></td> <td></td> <td>Facsimile No.</td> </tr> <tr> <td></td> <td></td> <td>Teleprinter No.</td> </tr> </table>				Name and Address PADILLA, Amphlett, Greg 10137 South Westnedge Portage, MI 49002 United States of America	State of Nationality US	State of Residence US			Telephone No.			Facsimile No.			Teleprinter No.
Name and Address PADILLA, Amphlett, Greg 10137 South Westnedge Portage, MI 49002 United States of America	State of Nationality US	State of Residence US													
		Telephone No.													
		Facsimile No.													
		Teleprinter No.													
<p>3. Further observations, if necessary: The person identified in Box 2 has been added to the record as applicant for the United States of America only and inventor for all designated States.</p>															
<p>4. A copy of this notification has been sent to:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> the receiving Office <input checked="" type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the International Preliminary Examining Authority </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> the designated Offices concerned <input checked="" type="checkbox"/> the elected Offices concerned <input type="checkbox"/> Other: _____ </td> </tr> </table>				<input checked="" type="checkbox"/> the receiving Office <input checked="" type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> the designated Offices concerned <input checked="" type="checkbox"/> the elected Offices concerned <input type="checkbox"/> Other: _____										
<input checked="" type="checkbox"/> the receiving Office <input checked="" type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> the designated Offices concerned <input checked="" type="checkbox"/> the elected Offices concerned <input type="checkbox"/> Other: _____														
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.70.80		Authorized officer S. Diot Telephone No. (41-22) 338 9608													

PATENT COOPERATION TREATY

30

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year)
27 September 2005 (27.09.2005)

To:

ROEDEL, John, K., Jr.
Senniger, Powers, Leavitt & Roedel
#1 Metropolitan Square, 16th Floor
St. Louis, Missouri 63102
United States of America

Applicant's or agent's file reference
PHA4152.1

IMPORTANT NOTIFICATION

International application No.
PCT/US2004/008629

International filing date (day/month/year)
22 March 2004 (22.03.2004)

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address

EPO-DG 1

12.10.2005

TEAM 14

State of Nationality

State of Residence

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address

PEARLMAN, Bruce, Allen
3411 Willow Lake Drive #308
Kalamazoo, MI 49008
United States of America

State of Nationality

State of Residence

US

US

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

The person identified in Box 2 has been added to the record as applicant for the United States of America only and inventor for all designated States.

4. A copy of this notification has been sent to:

<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned
<input checked="" type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other.

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 338.70.80

Authorized officer

S. Diot

Telephone No. (41-22) 338 9608

PATENT COOPERATION TREATY

30

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year) 27 September 2005 (27.09.2005)
Applicant's or agent's file reference PHA4152.1
International application No. PCT/US2004/008629

From the INTERNATIONAL BUREAU

To:

ROEDEL, John, K., Jr.
 Senniger, Powers, Leavitt & Roedel
 #1 Metropolitan Square, 16th Floor
 St. Louis, Missouri 63102
 United States of America

1. The following indications appeared on record concerning: <input type="checkbox"/> the applicant <input type="checkbox"/> the inventor <input type="checkbox"/> the agent <input type="checkbox"/> the common representative				
Name and Address 	State of Nationality		State of Residence	
	Telephone No.			
	Facsimile No.			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: <input type="checkbox"/> the person <input type="checkbox"/> the name <input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence				
Name and Address MACKEY, Sonia, S. 1335 Simpson Street Saint Paul, MN 55108 United States of America	State of Nationality US		State of Residence US	
	Telephone No.			
	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary: The person identified in Box 2 has been added to the record as applicant for the United States of America only and inventor for all designated States.				
4. A copy of this notification has been sent to: <input checked="" type="checkbox"/> the receiving Office <input type="checkbox"/> the designated Offices concerned <input checked="" type="checkbox"/> the International Searching Authority <input checked="" type="checkbox"/> the elected Offices concerned <input checked="" type="checkbox"/> the International Preliminary Examining Authority <input type="checkbox"/> other: _____				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.70.80	Authorized officer S. Diot Telephone No. (41-22) 338 9608			